

## ABSTRACT OF THE INVENTION

A safe having a good coefficient of performance is provided, and a refrigerating cycle and a refrigerating device in which the non-azeotropic refrigerant mixture is circulated are also provided. The non-azeotropic refrigerant mixture comprises a carbon dioxide and at least one kind of combustible refrigerants, and has a temperature 10 glide. The refrigerating cycle, in which a compressor, a heat radiator, an expansion mechanism and an evaporator are connected by a refrigerant path, is characterized in that the above non-azeotropic refrigerant mixture is circuited in the refrigerating cycle. In addition, a refrigerating device comprises the above refrigerating cycle and a plurality of the evaporators, wherein an evaporator for use in a low temperature and an 15 evaporator for use in a high temperature higher than the low temperature are arranged in series.